





Estimated 1995-2005 Average Consumptive Use

(thousand acre-feet/year)

Demand Area	Agriculture	Urban	Environment*	Total_
Unimpaired Delta outf			40,393	
Net Delta Outflow	-	-	22,553	22,553
Total Diversions	14,090	3,235	415	17,740
Upstream diversions	9,540	1,712	138	11,390
Delta diversions	4,550	1,523	277	6,350
In-Delta	769	0	0	769
Upstream diversions	0	0	0	0
Delta diversions	769	-	-	769
North of Delta	6,000	562	138	6,700
Upstream diversions	6,000	520	138	6,658
Delta diversions	0	42	0	42
South of Delta	7,321	1,960	277	9,558
Upstream diversions	3,540	600	-	4,140
Delta diversions	3,781	1,360	277	5,418
West of Delta	0	713	0	713
Upstream diversions	0	592	0	592
Delta diversions	0	121	0	121

Major Water Problems of California

- Klamath River system Salmon, hydropower, water diversions to Central Valley
- 2) Sacramento Valley flood management, conjunctive use
- 3) Mountain communities local urban water supplies
- 4) The Delta ecosystem, water exports, local water supply and land use– Main Hub
- 5) Bay Area water supply, drinking water treatment
- 6) San Joaquin River water supplies, salt, floods
- 7) Tulare Basin water supply, salt, groundwater overdraft 2nd Hub
- 8) Southern California water supply, drinking water treatment
- 9) Salton Sea Pacific flyway, urbanization, salt
- 10) Colorado River salt, ecosystems, Pacific flyway, Mexico treaties
- 11) Salinas Valley sea water intrusion only weakly connected

Some Lessons



- 1) Highly connected and physically flexible system.
- 2) We all benefit and depend on a common water system.
- 3) There are many ways to provide water supply.
- 4) Storage capacities: about 40 million acre-ft surface water about 150 400 million acre-ft groundwater
- 5) Of traditional infrastructure, conveyance is typically much more useful if water operations are smart.
- 6) Integrated portfolio solutions of traditional and new options tend to be more cost-effective and robust.
- 7) Need integrated technical and scientific work to support integrated water management for the future.